



US005573414A

**United States Patent** [19]

Taillon et al.

[11] **Patent Number:** 5,573,414[45] **Date of Patent:** Nov. 12, 1996[54] **TWO PIECE ELECTRICAL AND FLUIDIC CONNECTOR AND INSTALLATION METHOD THEREFORE**[75] Inventors: **James K. Taillon**, High Ridge; **Frank R. Reidelberger III**, Chesterfield, both of Mo.[73] Assignee: **Mechanical Dynamics & Analysis, Inc.**, Scotia, N.Y.

[21] Appl. No.: 405,225

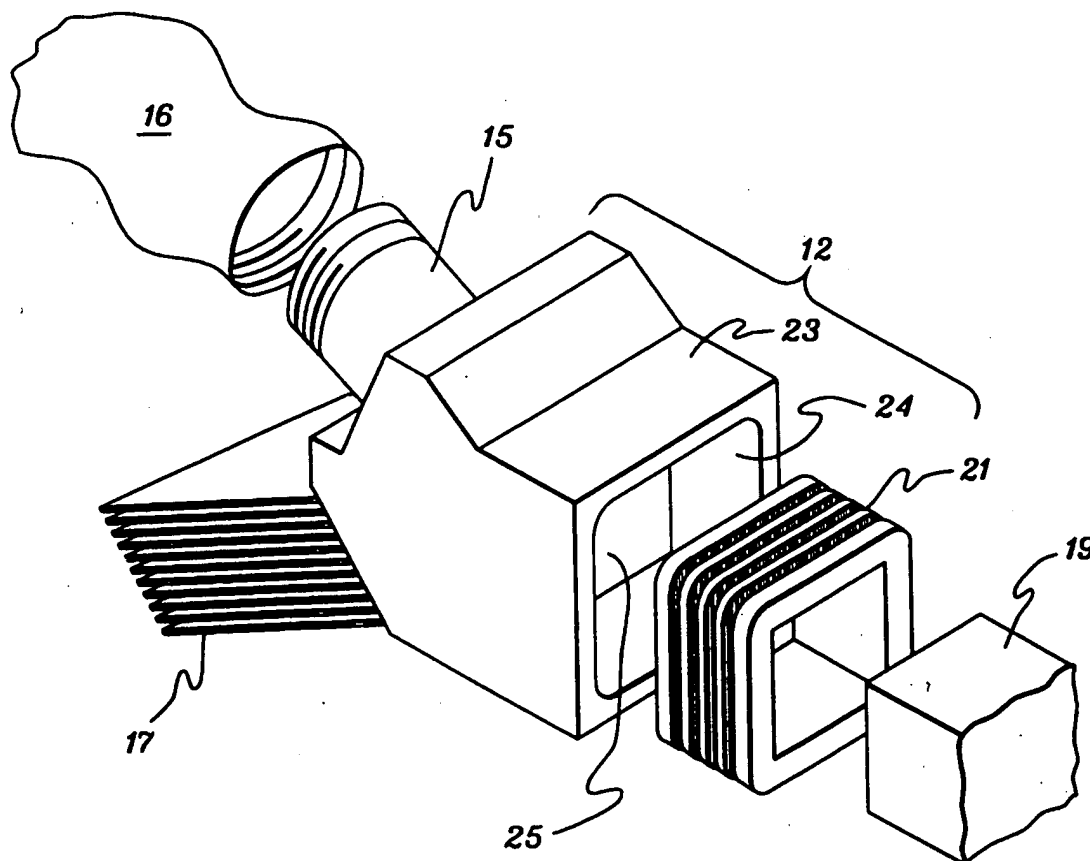
[22] Filed: **Mar. 16, 1995**[51] Int. Cl.<sup>6</sup> ..... **H01R 4/60**[52] U.S. Cl. .... **439/191; 29/889.22**[58] Field of Search ..... 439/190, 191,  
439/196; 174/9 R, 9 F; 29/889.22[56] **References Cited****U.S. PATENT DOCUMENTS**

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In water cooled electric generators, an electrical and fluidic connector connects a stator bar to an electrical bus and to a water source. The connector comprises two pieces, a clip and a sleeve. During installation, the sleeve is brazed to the stator bar in a fluid tight manner, and the clip is then brazed to the sleeve. Fluidic connection from the generator's water source to the stator bar is provided by a hose attached to a fluid port on the clip. Connection to the electrical bus of the generator is provided by copper leaves and/or copper piping brazed onto the clip. The clip and the sleeve are both formed from copper to form an electrical connection between the copper leaves and/or copper piping and the stator bar. The connector may be further used to replace a defective electrical and fluidic connector that terminates a stator bar in a water cooled electric generator.

**21 Claims, 11 Drawing Sheets****BEST AVAILABLE COPY**